FRETOKIN, M.Ta.; LEVINA, N.S.; ZHUSTAREV, Te.H.

Finish machining of holes by grooving. Stan.i instr. 31
no.2:37-40 F '60. (MIRA 13:5)

(Matale-Finishing)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610009-5"

LEVINA, M. Ya.

Growth modifications of the jelly of Wharton in the human umbillicus. Doklady Akad.nauk SSSR 77 no.1:109-112 1 Mar 51. (CLML 20:6)

1. Presented by Academician N.N. Anichkov 2 January 1951.

LEVINA, M. Ya.

Gelatinous substance of the human umbilicus and its formation.

Doklady Akad. nauk SSSR 79 no.4:709-711 1 Aug 1951. (CIML 21:1)

1. Leningrad State Pediatric Medical Institute. 2. Presented 29 May 1951 by Academician H. N. Anichkov.

LEVIEA, M.Ya.

Ability to secrete by smooth-muscle cells of the unbilical vessels in man. Doklady Akad. namk 86 no. 4:837-840 1 Oct 1952. (CLML 23:3)

1. Presented by Academician H. H. Anichkov 2 June 1952. 2. Leningrad State Medical Pediatric Institute.

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610009-5"

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	USSR (600)		
4. 7.	Umbilicus Certain data concerning the structure and development of umbilical the human embryo. Dokl. AN SSSR, 89, No. 1, 1953.	l vessels in	
9.	Monthly List of Russian Accessions, Library of Congress, May	1953. Unclassified.	
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LEVINA, M. Ya.; ANICHIOV, N.N., akademik.

Tissue character of the stroma of small intestine villi. Dokl. AN SSSR (MLRA 6:6)
90 no.6:1151-1154 Je '53.

1. Leningradskiy gosudarstvennyy pediatricheskiy meditsinskiy institut.
2. Akademiya nauk SSSR (for Anichkov).

(Intestines)

LEVINA, MI. YA.

USSR/Medicine - Histology

Card 1/1 : Pub. 22 - 40/44

Authors : Levina, M. Ya.

Title | Certain facts about the histogenesis of the human umbilical cord

Periodical : Dok. AN SUSR 98/6, 1029-1032, October 21, 1954

Abstract : Report containing certain facts about the histogenesis of the human umbilical cord is presented. Fifteen references: 7-USIR; 6-Garman

and 2-USA (1089-1951). Illustrations.

Institution: State Pediatrics Medical Institute, Loningrad

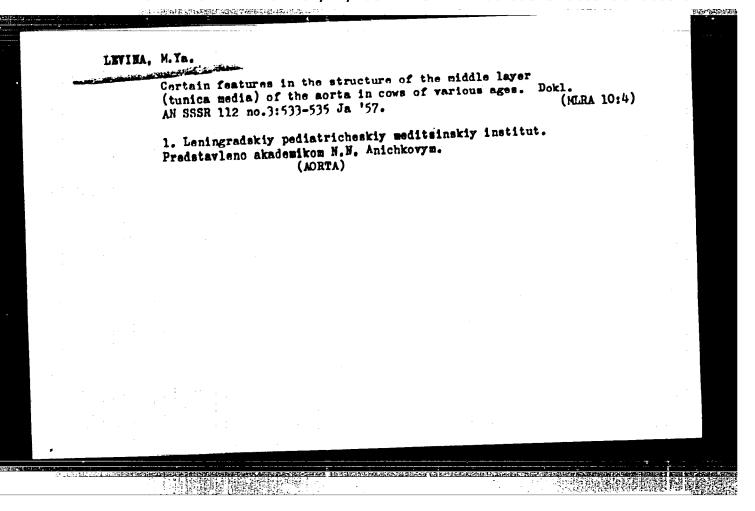
Presented by: Academician H. H. Anichkov, July 7, 1954

LEVIEL, M.Ya.

Reproduction of settled cellular elements in Wharton's jelly in the human umbilical cord. Dokl. AN SSSR 104 no.6:922-924 0 '55. (MLRA 9:3)

1. Leningradskiy gosudarstvennyy pediatricheskiy meditsinskiy institut. Prestavleno akademikom N.N. Anichkovym. (UMBILICUS)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610009-5"



LEVINA, M.Ya. (Leningrad, D-40, Pushkinakaya ul., 12/2, kv. 44)

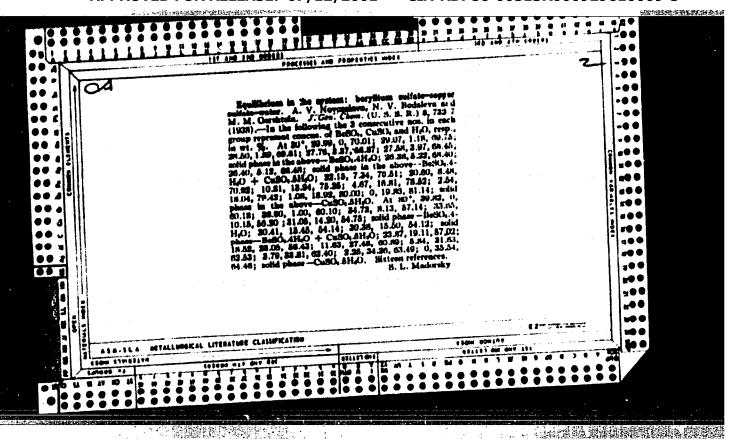
Comparative histology of the amniotic epithelium of mammals. Arkh. anat.gist.i embr. 39 no.7:37-46 Jl '60. (MIRA 14:5)

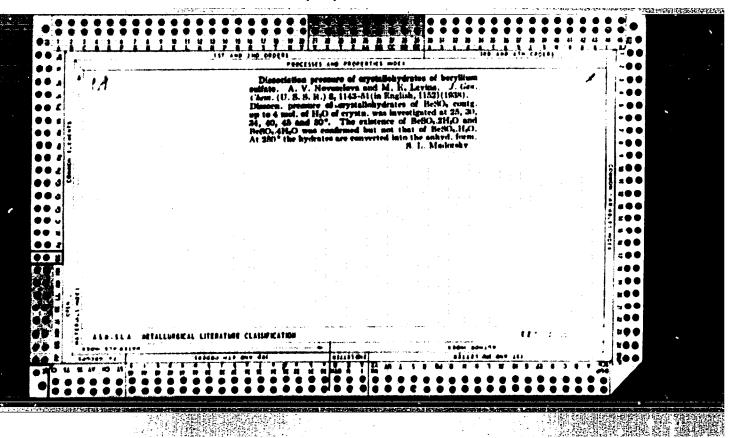
1. Kafedra gistologii i embriologii (zav. - prof. A.G.Knorre) Leningradskogo pediatricheskogo meditsinskogo instituta. (AMNION)

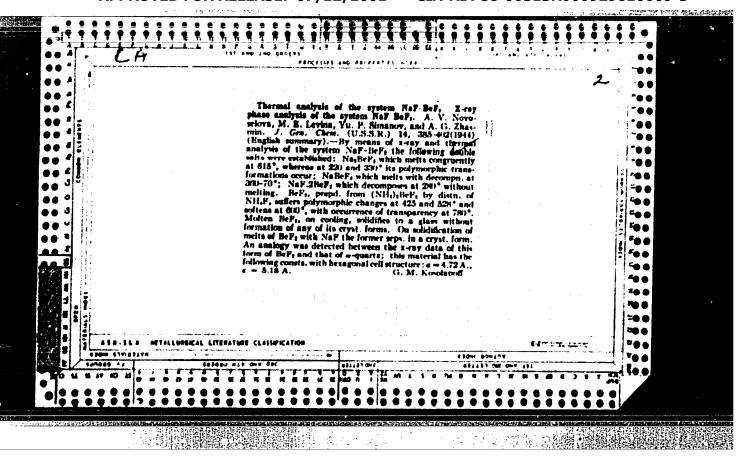
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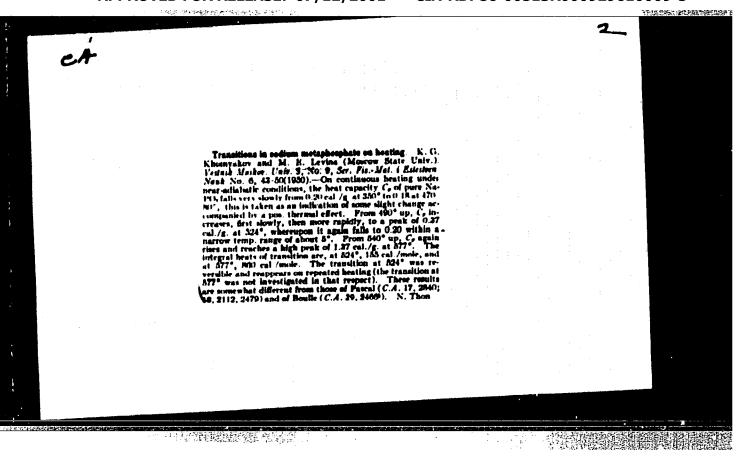
LEVINA, M.Ya.; MARTSINKEVICH, L.D.

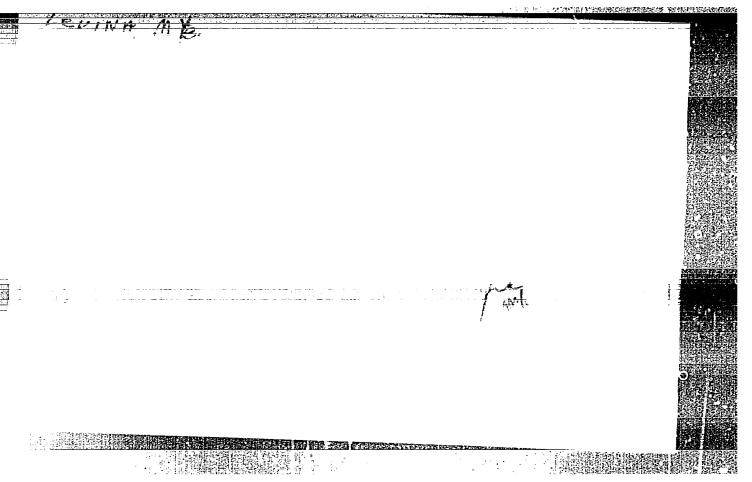
"Atlas of the microscopic structure of tissues and organs; practical exercises for students in histology" by V.G. Eliseev, IU.I. Afanas'ev, E.F. Kotovskii. Reviewed by M.IA. Levina, L.D. Martsinkevick, Arkh. anat., gist. i embr. 43 no.8:115-119 Asista. (MIRA 17:8)

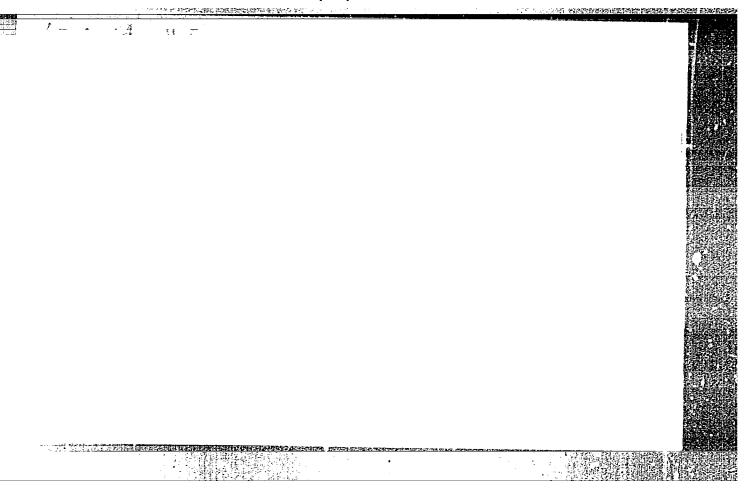








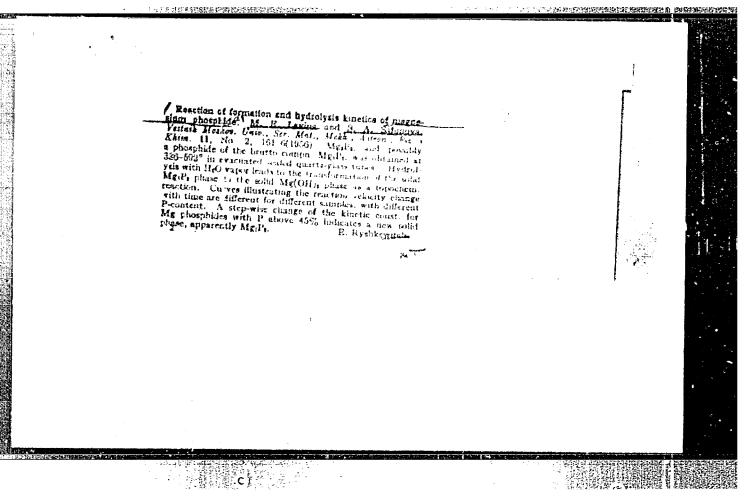




LEVINA, M.Ye.; HOVOSELOVA, A.V.; SIMANOV, Yu.P.; BAKINA, L.I.

Thermal and I-ray phase analysis of the system: I2BeFt, -- I2BOt,
Zhur.neorg.khim. 1 no.7:1638-1641 J1 '56. (MLRA 9:11)

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova. (Potassium salts)



507/78-3-11-21/23 AUTHORS: Novoselova, A. V., Levina, M. Ye., Savel'yeva, M. P.

The Phase Diagram of the System NaF-BeF, (Diagramma sostoyaniya TITLE:

sistemy NaF-BeF2)

PERIODICAL: Zhurnal neorganicheskoy khimii, 1958, Vol 3, Nr 11, pp 2562-2570

(USSR)

ABSTRACT: The system NaF-BeF2 was investigated in the crystallization

range of beryllium fluoride. Purest sodium- and ammoniumberyllium fluoride were used for the investigation: Na2BeF4 and $(\mathrm{NH_4})_2\mathrm{BeF_4}$. The differential thermal analysis was carried out by means of the pyrometer by Kurnakov. It was found that in the case of the thermal treatment of Na₂BeF₄ besides the thermal

effects at 220 and 326°C also an endothermal effect at 270°C occurs on the thermograms. Na₂BeF₄ melts at 610 \pm 5°C. The

results of the thermal analyses of the melt of the system

NaF-BeF2 are given in table 1. The phase diagram of the system

Card 1/2 is given in figure 1. The following double salts were found to

The Phase Diagram of the System NaF-BeF

SOV/78-3-11-21/23

occur in the system: 3 NaF.BeF₂ (decomposes at 480°C), 2NaF.BeF₂ (m lting point at 610°C), NaF.BeF₂ or NaBeF₃ (melting point at 380°C), NaF.2 BeF₂ (decomposes at 270°C).

Thermal analyses of the melts were carried out with 33,3 - 50 mol% BeF_2 as well as with 50 - 100 mol% BeF_2 . On the strength

of the investigations carried out a second phase diagram of NaF-BeF₂ was constructed on which also the limit of the high-

temperature modification is plotted. The structure of the high-temperature modification of beryllium fluoride was not determined. The melting point of this modification is 800°C.

There are 8 figures, 4 tables, and 17 references, 9 of which are Soviet.

SUBMITTED:

July 17, 1957

Card 2/2

24.7800 (1142,1144,1162)

8500h s/048/60/024/010/013/033 BO13/BO63

AUTHORS:

Sklyankin, A. A., and Strukov, B. A., Koptsik, V. A.,

Levina, M. Ye.

TITLE:

Dielectric and Calorimetric Study of Ammonium Sulfate- and

Ammonium Fluoroberyllate Crystals

PERIODICAL:

Izvestiya Akademii nauk SBSR. Seriya fizicheskaya, 1960,

Vol. 24, No. 10, pp. 1228-1230

TEXT: Large ammonium sulfate monocrystals were obtained from an aqueous solution of the chemically pure reagent by applying the cooling method. Ammonium fluoroberyllate was synthesized by Lebeau's method (Ref. 5). The crystals were bred from its aqueous solution by evaporating at a con-The crystals were ored from its aqueous solution of the crystant temperature. Studied dielectrically were c-cuts of (NH₄)₂SO₄ crystant temperature. tals and b-cuts of (NH4)2BeF4 crystals. The crystalline powder used for the crystal breeding was studied calorimetrically, & and tan & were measured after all stabilization processes were over. Temperature dependences of E and tan & are shown in Fig. 1 for the c-cut of (NH₄)₂SO₄ crystals,

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Dielectric and Calorimetric Study of Ammonium S/048/60/024/010/013/033 Sulfate- and Ammonium Fluoroberyllate Crys- B013/B063 tals

and in Fig. 2 for the b-cut of $(NH_4)_2BeF_4$ crystals. The dependences $\tan \delta(T)$ have the same character in both crystal types. $\mathcal{E}(T)$, on the contrary, exhibit considerable differences. The authors also considered temperature dependences of polarization for different field strengths in the region of phase transformations of the mentioned crystals. The respective results are published in a separate article. Fig. 3 shows the temperature dependence of specific heat c_p for $(NH_4)_2SO_4$. It was found that the cooling of the specimens at $T > T_K$ is not always accompanied by their transition into the piezoelectric phase. The undercooling was determined as being about $0.4 + 0.5^\circ$, which corresponds to dielectric measurement results. The mean value of integral temperature of transition was 490 cal/mole The temperature dependence of c_p on $(NH_4)_2BeF_4$ is given in Fig. 4. The curve shows a characteristic λ -peak. No undercooling effect was observed. The discrepancy between the transition temperatures determined calorimetrically (-49.9 and -98.6 C) and those determined dielectrically (-47.6 and -93.4 C) is probably to be explained by an inaccurate graduation of the Card 2/3

8500 4

Dielectric and Calorimetric Study of Ammonium Sulfate- and Ammonium Fluoroberyllate Crystals

S/048/60/024/010/013/033 B013/B063

thermocouples used in dielectric measurements. The authors thank

A. N. Izrailenko and A. F. Solov'yev for their assistance. The present
paper was read at the Third Conference on Piezoelectricity, which took
place in Moscow from January 25 to 30, 1960. There are 4 figures and
references: 3 Soviet.

ASSOCIATION:

Moskovskiy gos. universitet im. M. V. Lomonosova (Moscow State University imeni M. V. Lomonosov).

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Card 3/3

LEVINA, M.Ye.; KHROMOVA, N.V.

Phase transitions and heats of solution of potassium fluoberyllate (K2BeF4). Izv.vys.ucheb.zav.;khim.i khim.tekh. 6 no.5:717-723 '63. (MIRA 16:12)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova, kafedra obshchey khimii.

LEVINA, M.Ye.; SEMENOVA, A.D.

Heats of solution of various modifications of sodium fluoberyllate (Na₂BeF₄). Vest.Mosk.un. Ser.2:Khim. 18 no.6:55-58 N-D '63. (MIRA 17:4)

1. Kafedra obshchey khimii Moskovskogo universiteta.

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610009-5"

Phase transitions of sodium fluoberyllates (Na₂BeF₂). Vest.
Mosk. un. Ser. 2: Khim. 18 no.5:32-38 S-0 '63. (MIRA 16:11)

1. Kafedra obshchey khimii Moskovokogo universiteta.

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610009-5"

LEVINA, M.Yo. [Lovina, M.E.]; SHERSHEV, B.S. [Shershov, B.S.]

Phase diagram of the system KBeF₃ - KPO₃. Dop. AN URGR no.7: 942-945 '64. (MIRA 17:9)

1. Moskovskiy gosudarstvennyj universitet. Predstavleno akademikom AN UkrSSR Ye.A.Shilovym [Shylov, IF.O.].

LEVINA M. Ye.

True heat capacity of various sodium phosphates. Izv.vys.ucheb. zav.;khim. i khim. tekn. 7 no. 1:7-9 164. (MIRA 17:5)

1. Moskovskiy gosudarstvennyy universitet im. Lomonosova, kafedra obshchey khimii.

Phage transitions and heats of dissolution of NaReFg. Ukr. khim. znur. 50 no.9:985-988 *62. (MISA 17:10)

1. Moskovskiy gosidarstvennyy universitat imeni lomonoseva.

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610009-5"

LEVINA, M.Ye.; CHEICHEV, B.D. [Sheranov, B.S.]

Transmission spectra of glasses in the systems NaBer, - No.6, and KBer, - KPO, bop. AN UKR no.1:70-73 165.

[MIGA 1:02]

1. Moskovskiy gosudarstvennyy universitet. Predstavleno akatemikos AN UkrSSR Ye.A. Shilovym [Shylov, E.O.].

"APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000929610009-5

ACCESSION NR: AP5015567 UR/0153/65/008/002/0177/0180

AUTHOR: Levina, M. Ye.

TITLE: Phase transformations of beryllium fluoride

SOURCE: IVUZ. Khimiya i khimicheskaya tekhnologiya, v. 8, no. 2, 1965, 177-150

TOPIC TAGS: beryllium fluoride, phase transformation, polymorphism, heat capacity

ABSTRACT—The polymorphism of beryllium fluoride was staffed by measuring the heat capacity. The procedure and apparatus used for the preparation of ket care to copied their aration involved the reaction Nil, zik by the preparation of ket care to copied thems of both the cristobalitelike and quartzlike forms of Beby were investigated one.

This is and 2 of the Enclosure). In Fig. 1, the thermal effect at the case transformation of the low temperature partzlike is by the case to expend the capacity data. The authors constructe that the prase transformation of martzlike Beby are first order later one in case to also the cristobalitelike form of beby the phase transformations are also over Ortg. art, has 3 figures.

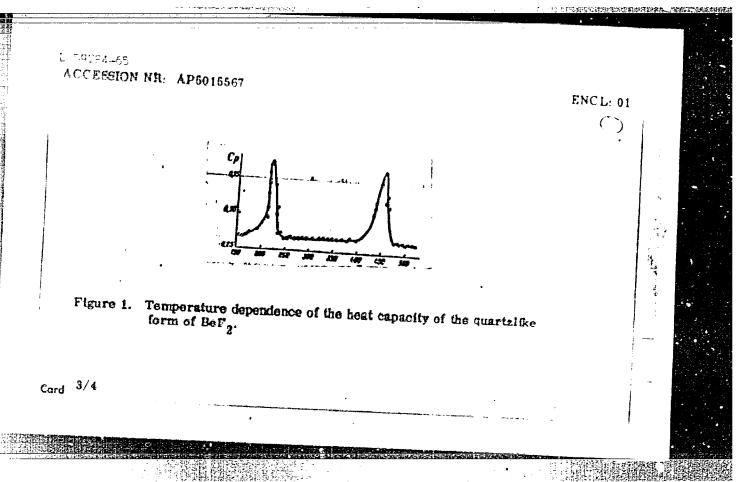
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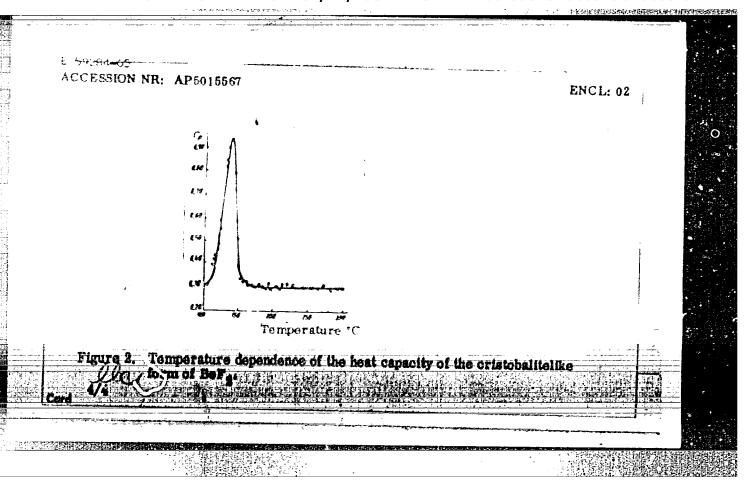
ASSOCIATION: Kafedra obshchey khimit, Moskovskiy gosudarstvennyy universitet im.

M. V. Lemonosova (Department of General Chemistry, Moscow State University)

Elitabelules Energy State University

OTHER: 006





APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610009-5"

L 00030-66 EWT(a)/EWP(t)/EWP(b) ACCESSION NR: AP5020309 IJP(c) JD/JG

AUTHOR: Levins, H. Ye.; Shershev, B. S.; Zaborenko, K. B. UR/0186/65/007/004/0480/0482 \$41.136.2 | 846.45.56.161 + 846.56.168 | 846.556.819.786.

TITLE: Emanation study of the sodium beryllium trifluoride-sodium metaphosphate

SOURCE: Radiokhimiya, v. 7, no. 4, 1965, 480-482

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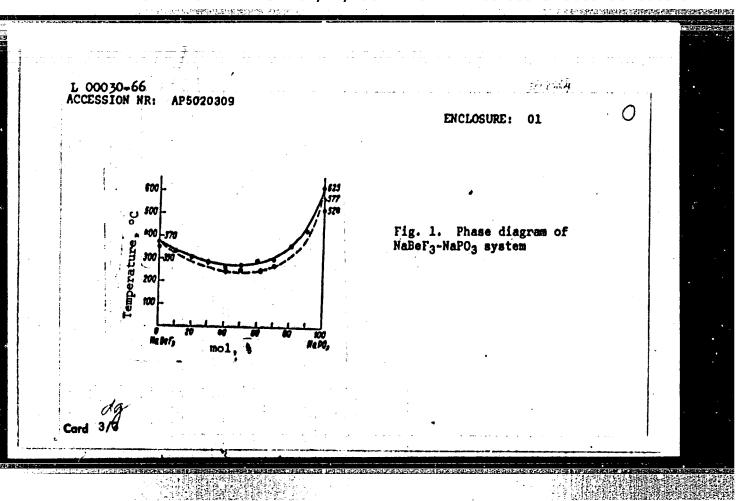
TOPIC TAGS: sodium compound, radioactivity measurement, phase diagram

ABSTRACT: The purpose of this investigation was to determine more accurately the phase diagram of NaBerg-NaPO3 system, which was previously studied by means of there mal analysis, and to investigate chemical reactions of mixtures in solid state which would give additional data concerning this system. The phase diagram of the NaBeF3-NaPO3 system consists of a continuous series of solid solutions (Fig. 1 of the Enclosure). The methods and the apparatus for measurement of the emanation of pure compounds during heating are described in Radiokhimiya, 5, 360 (1983). Radiothorium chloride was introduced as an alcoholic solution into finely ground WaBeF3 powder which was then thoroughly mixed and dried. The active NaBeF3 was mixed in appropriate molar ratios with NaPO3. The mixture was placed into a Pt crucible and

Card 1/3

heated in the metal block of an electric furnace. The temperature was measured with a Pt-Pt/Rh thermocouple. The ionization chamber was used for measuring the activity of thoron. The experimental data obtained by the emanation method verify the existence of a liquidus curve of the continuous series of solid solutions in the investigated system. Orig. art. has: 4 rigures. ASSOCIATION: none SUBHITTED: 10Jul64 ENCL: 01 SUB CODE: 10, 00	ACCESSION	6 NR: AP5020309	the state of the s		***		,
ASSOCIATION: none SUBMITTED: 10Jul64 ENCL: 01 SUB CODE: 10, 00	the exister	co of a Manual	mental data	obtained by			
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CIA-RDP86-00513R000929610009-5

L 20992-66 EmP(e)/EMT(m)/T DIAAP WH ACCESSION NR: AP5020310 UR/0186/65/007/004/0483/0486 541.123.2:546.45 32 161+546.32 185:546.296 543.226 AUTHOR: Levina, M. Ye.; Shershev, B. S.; Zaborenko, K. B. TITLE: Study of the KBeF3-KPO3 system by the radioactive emission method SOURCE: Radiokhimiya, v. 7, no. 4, 1965, 483-486 TOPIC TACS: fluoroberyllium glass, phosphate glass, optical glass, infrared glass filter, fluoroberyllate phosphate system, phase diagram, radioactive emission method ABSTRACT: The phase diagram and solid-state chemical reactions of the KBeF 3-KPO3 system have been studied by the radioactive emission method with emphasis on the region of the diagram in the 10-40 mol# KPO, range, the study of which had not been completed previously. The beryllium glasses formed in this region are the most transparent in ultraviolet or infrared spectral regions, and the most weatherproof of all the glasses in the system studied, and therefore may find application as new optical glassy materials. The curves of emissive power versus temperature of the sample indicated that a chemical reaction in the solid state started at 200-220C. Earlier DIA data obtained by the authors were confirmed, indicating the formation of a KBeF₃-KPO₃ compound with a melting point of 495-500C, which formed two eutectics Card 1/2

eutectic mixtures containi 295—300C for all these mi	of the system. The peaks of ng 20-35 mol% KPO3 indica xtures and ends at a temper ature data coincided with d	ated that the melting rature varying with t	begins at / he compo-	
the liquidus curve extrapo	lated because it was in 'ss phase diagram. Orig. art.	sible to obtain exper		
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NO REF SOV: 002	OTHER: 008	ATD PRE	ss: 4069	
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20679-66 EMP(e)/EMT(a)/EPP(n)-2/T/EMP(t) IJP(e) VD/WW/JW/JG/WH ACC NR: AP6010832 SOURCE CODE: UR/0073/66/032/003/0253/0255 AUTHOR: Levina, M. Ye.; Shershev, B. S. 43 ORG: Moscow State University im. M. V. Lomonosov (Moskovskiy gosudarstvennyy TITLE: Phase diagram of the NaBeF3-NaPO3 system SOURCE: Ukrainskiy khimicheskiy zhurnal, v. 32, no. 3, 1966, 253-255 TOPIC TAGS: fluoroberyllate glass, phosphate glass, optical glass, infrared glass filter, metafluoroberyllate metaphosphate system, phase diagram ABSTRACT: The phase diagram of the NaBeF3-NaPO3 system has been established by differential thermal analysis of the molten, slow cooled mixtures of pure components of the system to determine the conditions of formation of fluoroberyllate glasses. The formation of such glasses was reported in the literature. A rapid (30-400 per min) cooling of the NaBeF3-NaPO3 melts produced transparent, moisture resistant glasses over the entire range of concentrations of the components. Quality of the glasses was improved by pouring the melt on a platinum sheet. The phase diagram of the system was typical for a continuous series of solid solutions with a minimum melting point at 40 mol NaPO3. Composition dependence of dielectric losses, tg 6 and of refractive indices of the glossy samples confirmed formation of continuous solid solutions. The glasses formed by rapid cooling of the melts had low melting points (~240—625C) and were partially transparent in the ultraviolet and infrared Card 1/2 UDC: 536.7

spe Cry	ctral metallimelts	egion	s. They do asses of the y compositio	not crysta NaBeF ₃ -Na n within t	llize by an PO3 system he system.	nealin were o Orig.	g and may btained b art. has:	be used : y a slow 4 figu	in industry. cooling of res. [JK]	
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ACC NR. AT7003561 (N) SOURCE CODE: UR/3240/66/000/001/0045/0053

AUTHORS: Grebney, V. K.; Levina, M. Ye.; Shnee, Ya. I.

中心學學學學科社会

ORG: Kharkov Polytechnic Institute (Khar'khovskiy politekhnicheskiy institut)

TITLE: A study of stages with D/1 = 5 with a distinct radial gradient of reactivity

SOURCE: Kharkov. Politekhnicheskiy institut. Energeticheskoye mashinostroyeniye, no. 1, 1966. Teploobmen i gasodinamika (Heat transfer and gas dynamics), 45-53

TOPIC TAGS: turbojet engine, jettungine, jettune, jet propulsien, turbine, gas turbine, turbine stage, furfice blake

ABSTRACT: The problem of what radial gradient of reactivity is optimal for a given range of D/1 in a turbine stage is solved. Variation in the law of distribution of stage reactivity along the height of the blade is due to variation of the kinematic relationships in individual blade sections, and thus to variation of the sum of hydraulic losses (relative losses in jets and in blades (\(\mathbb{L}_i + \mathbb{L}_i\)). In this study, D/1 was varied between 2.5 and 40 by changing the values of other controllable parameters. Fifteen stage variants were tested, and the performance characteristics of each combination are plotted as a function of the intervane distance L. The authors conclude that: 1) the intervane distance has a pronounced effect upon the radial gradient of reactivity, especially for stages exhibiting a large curvature of seridional stresslines with a small intervane distance; 2) the radial gradient of

Cord 1/2

ACC NR: AT7003561

reactivity is subject to the law of torsion of a jet lattice, for a small intervane distance; 3) the law of clogging a flow section by the body of a blade plays an important role in the curvature of meridional streamlines; 4) the radial difference of reactivity decreases with decreasing width of the jet lattice; 5) the torsion law of the working lattice also affects the curvature of meridional streamlines within the intervane gap. Orig. art. has: 6 figures and 3 tables.

SUB CODE: 21/0/SUBM DATE: none/ ORIG HEP: 005

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ACC NR. AT7003562

(W)

SOURCE CUDE: UR/3240/66/000/001/0054/CU59

AUTHORS: Grechanichenko, Yu. V.; Levina, N. Ye.

ORG: Kharkov Polytechnic Institute (Khar'kovskiy politekhnicheskiy institut)

TITLE: Calculation of the three-dimensional double-parameter flow in a stage with arbitrary meridianal boundaries

SOURCE: Kharkov. Politekhnicheskiy institut. Energeticheskoye mashinostroyeniye, no. 1, 1966. Teploobmen i gasodinamika (Heat transfer and gas dynamics) 54-59

TOPIC TAGS: Turbine, turbine stage, compressible staw, axisymmetric flow/ KhTGZ

ABSTRACT: The development and techniques of a previous work by M. Ye. Levina, P. A. Romanenko, and V. I. Grechanichenko (Raschet raspredeleniya parametrov potoka v turbinnoy stupeni s tsilindricheskimi granitsami. Zh. Energomashinostroyeniye, 1964, Mo. 8) are generalized for calculating the parameters of a compressible fluid, with variable parameters at the input of a turbine stage with noncylindrical profile. The previous assumptions of a uniform helical flow in the gap and of a parabolic dependence of C_r with radius are dispensed with. The subcritical flow of a fluid in a turbine stage, assuming axially symmetric flow, is described by the Euler equation projected on the raxis

 $\frac{1}{r}\frac{\partial P}{\partial r} = \frac{C_{s}^{1}}{r} - C_{r}\frac{\partial C_{r}}{\partial r} - C_{s}\frac{\partial C_{r}}{\partial r}$

Card 1/2

ACC NR. AT7003562

the energy equation

$$C_{pq}T_{q}^{s} = \frac{h}{h-1}\frac{P}{p} + \frac{C^{q}}{2} + uC_{q} + uC_{qq}$$

the process equation

$$\frac{P}{R} = \text{const.}$$

the continuity equation in differential form

$$\frac{\partial}{\partial r} \left(\rho \left(r - \tau \right) C_r \right) + \frac{\partial}{\partial r} \left(\rho \left(r - \tau \right) C_r \right) = 0.$$

where τ is the total blade thickness in the circumferential direction, and by the kinematic relation between the velocity projections

$$C_a - C_a \operatorname{ctg} \beta + u - C_a \operatorname{ctg} a$$

The velocity components are expressed as partial derivatives of a function which is found in the form of a series. Calculations were carried out for a stage with the geometrical characteristics of the last stage of turbine KhTGZ K-500-240. The calculated meridianal flow lines and the distribution of velocity components and pressure along the radius are shown graphically. Orig. art. has: 15 equations and 4 diagrams.

SUB CODE: 21, 20/ SUBM DATE: none/ ORIG REF: 006

Cord 2/2

Experimental atudy of the first the manufacture of the stand the annular cascade. Study that 29 may 100 (to 14:10)

(burbons mines Fluid dynamics)

AID P - 5003

Subject

: USSR/Engineering

Card 1/1

Pub. 110-a - 5/17

Authors

: Levina, M. Ye., Kand. Tech. Sci., L. I. Slobodyanyuk, Eng.

Title

: Turbine stage with constant uniform reaction

Periodical: Teploenergetika, 39, 28-35, S 1956

Abstract

: The problem of designing a turbine stage with a constant pressure along the radius is discussed. The authors demonstrate theoretically that a solution is possible with the help of regular cylindrical blades, but only at the expense of an appropriate design of the main section of the turbine. These theoretical considerations are confirmed by experimental data. Definite deductions must be made after the testing of a turbine with a revolving

wheel. 7 diagrams. 3 references.

Institution: Khar'kov Polytechnic Institute

Submitted

: No date

\$/124/60/000/004/013/027 A005/A001

Translation from: Referativnyy zhurnal, Mekhanika, 1960, No. 4, p. 58, # 4606

AUTHORS: Levi

Levina, M.Ye., Slobodyanyuk, L.I.

TITLE:

The Turbine Stage With Constant Reactivity and Without a Radial

Pressure Gradient

PE ICTCAL: Tr, Khar'kovsk. politekhn. in-ta, 1957, Vol. 24, pp. 51-68

TEXT: The axisymmetrical flow of an ideal fluid through a turbine stage is analyzed in more details than in the previous article of the authors (Teploenergetika, 1956, No. 9, pp. 28-35 -RZhMekh, 1958, No. 1, 457); an infinite large number of blades is assumed; a constant pressure along the radius is ensured owing to special profiles of blades and limiting surfaces. An example of computing the turbine stage and the results of measuring the pressure behind the guiding ring cascade (without the impeller) are given, which confirm the possibility of obtaining the constant pressure.

G.Yu. Stepanov

Translator's note: This is the full translation of the original Russian abstract.

Card 1/1

8(6), 9(3)

SOV/143-58-11-13/16

AUTHORS:

Levina, M.Ye., Candidate of Technical Sciences,

Docent, Romanenko, P.A., Engineer

TITLE:

The Flow Separation Phenomena in Annular Grids

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy, Energetika,

1958, Nr 11, pp 92-108 (USSR)

ABSTRACT:

The experimental investigations of isolated annular grids with relatively small D/l values show phenomena of flow separation from the hub in the space behind the annular grid. These phenomena are observed inside the grid itself at very small D/l values. These phenomena might cause fear that the flow separation will occur also in operational turbine stages. Further they might lead to doubt in using experimental data obtained during annular grid tests for analyzing the funtion of a turbine stage. K. Bammert and H. Kläukens /Ref 17 explained for the first time theoretically the flow separation from the hub, applicable to turbines, suing the principle of the "maximum flow" or the "minimum pressure drop". They used a number of

Card 1/5

assumptions for simplification: 1) A cylindrical flow was assumed behind the outlet section of the grid (Section I, as shown in figure 1b) and in the zone of maximum flow separation development (section II). 2) An ideal liquid was taken into consideration, permitting the assumption of a constant pressure at the flow separation boundary. 3) An incompressible liquid was considered. 4) A sufficiently long section of a cylindrical tube was assumed behind the annular grid, permitting a free development of the flow separation zone. The authors of this paper investigated in which way the aforementioned solution will correspond to actual conditions and studied for this reason a number of factors influencing the flow separation phenomena. The assumptions of the cylindrical flow behin the grid and in the far section, in the area of maximum stagnation zone development, leads to some contradictions. Investigating the influence of the meridional curvature, the authors state that it is necessary to abandon the assumption of the cylindrical flow in sections I and II (Figure 1b). It is more

Card 2/5

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610009-5"

natural to assume a flow curved in the meridional plane in the outlet section of the grid, considering it as a cylindrical flow in section II, which also corresponds to experimental data. The results of the calculations conducted by the authors show: 1) The curvature of the meridional trajectory at the outlet section of the annular grid changes sharply in dependence of the hub ratio and the angle \mathcal{A}_1 , as shown in a graph, figure 2. With increased hub ratio, the magnitude of radial acceleration, or more accurately, the change of radial velocity c'ry is reduced along z, turning to zero at a critical hub ratio. The latter depends on the angle α_1 . 2) The radius of the stagnation zone in the area, where the flow already may be considered as being cylindrical, decreases essentially with an increasing angle α_1 and depends very little on the hub ratio. 3) The pressure of a meridional trajectory curvature in the outlet section of the grid leads to a disturbance of the law of velocity component changes on the radius. 4) The deviation

Card 3/5

of the flow characteristic distribution in section I leads to a very strong disturbance of the law of velocity component changes in section II. 5) The low parameter distribution on the radius in section I depends on the flow conditions in section II. The statement in Ref 17 that the working blades are not fully used in stages with lengthened blades at small angles α_1 , requires checking. The authors investigate the influences of increased pressure at the flow separation boundary, compressibility and twist. For the experimental investigation a wind tunnel with turbine blade grids Nr 1 and Nr 2 and an air turbine with grid Nr 3 were used. The data for these grids are listed in table 1. The authors present the experimental investigation results in 19 graphs, dealing with meridional flow lines, static pressure changes and distribution, the influence of flow conditions on the annular grid and the component velocity profile. For the theoretical investigation certain assumptions were made concerning the liquid flow behind the annular grid. One of the most essential errors is caused by

Card 4/5

assuming the absence of viscosity. However, taking into consideration theoretically the influence of viscosity on separation phenomena is very complicated. The fact that the actual border of the stagnation area is below the theoretical one, may be explained by the viscous interaction between the basic flow and the stagnation area. As a result, the axial velocity is considerably reduced while the section of the basic flow is increased. In this way, the presence of viscosity in some way increases the flow stability.

There are 22 graphs, 1 table and 3 German references.

ASSOCIATION: Khar kovskiy politekhnicheskiy institut imeni V.I. Lenina (Khar'kov Polytechnic Institute imeni V.I. Lenin) Kafedra Turbostroyeniya (Chair of Turbine Build-

SUBMITTED:

June 28, 1958

Card 5/5

SOV/143-59-8-10/22 Levina, M.Ye., Docent, Romanenko, P.A., Engineer The Distortion of a Cylindrical Flow in a Turbine B(6) Izvestiya vysshikh uchebnykh zavedeniy, Energetika, Stage With Cylindrical Borders AUTHOR: TITLE: As a rule, a cylindrical flow is assumed when calcu-1959, Nr 8, pp 52-61 lating the distribution of flow parameters along the radius in the gaps between steam turbine stages, PERIODICAL: i.e. in the radial equilibrium equation ABSTRACT: the member par is neglected because of the small magnitude of the although this does not imply a small magnitude of the In addition there are many other factors which disturb the cylindrical flow. In this paper the authors discuss the influence of two facpaper the authors discuss the influence of two ISC-tors on the curvature of the meridional flow lines, V Card 1/3

APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000929610009-5"

SOV/143-59-8-10/22

The Distortion of a Cylindrical Flow in a Turbine Stage With Cylindrical Borders

i.e. the flow of a perfect liquid in a stage with cylindrical outlines in the absence of separation phenomena at the base. The axial symmetry of the flow and the absence of radial components of blade forces are assumed. For simplifying the analysis, the influence of the preceding stages is not considered, as well as a possible wave structure of the flow at large M values. The exact solution of the meridional large M values. The exact solution of the meridional flow line curvature in a turbine stage is very complicated and therefore, a preliminary estimation of the disturbances of the cylindrical flow in stages with disturbances of the cylindrical flow in stages with different characteristics is performed by the authors. They investigate radial displacements and the uneven blocking of the flow channel by the blades. In Figure 4, they present meridional flow lines inside of a nozzle grid. The results of calculations for nozzle grids are shown graphically. The calculation results grids are shown graphically. The calculation

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S/143/60/000/004/004/007 A163/A026

26.2120

AUTHORS:

Levina, M. 'e., Candidate of Technical Sciences, Lecturer; Romanen-

ko, P.A., Engineer

TITLE: Experimental Research on the Irregularities of Cylindrical Plow in

a Turbine Stage With Cylindrical Boundaries

PERIODICAL: Energetika, 1960, No. 4, pp. 64 - 70

TEXT: The article deals with experimental research work carried out on the irregularities of cylindrical flow in a turbine stage with cylindrical boundaries. The author presents the results of experiments performed on the curvature of meridian flow lines in a stage with strict cylindrical contours of the turbine section between inlet and outlet valve through which steam passes. C-1 (S-1) with a chord width of $b_X = 41.2$ mm was used as profile for the nozzle grid and for the working vane T-2 (T-2) with $b_X = 25$ mm. The relation of $\lambda = \frac{5}{2}$ = 5.13. The outlet angle of the nozzle grid a_1 , in previous experiments equal to 12°, was increased to 14°. The negative stage reactivity was eliminated after turning the working vanes by a_1 . Hereby, a_2 proved to be equal to a_3 . In order to build meridian flow lines. "traversirovaniye" [Abstractor's note: mean-

Card 1/2

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. . . .

S/143/60/000/004/004/007

Experimental Research on the Irregularities of Cylindrical Flow in a Turbine

ing unknown] were carried out on various distances z from the nozzle grid, i.e., on the rim clearance section and behind the runner. Subsequent measurements were made using three \(\Gamma\)-shaped tubes which made it possible to reach the walls as close as 0.5 mm. Due to considerable stage irregularities and inadequate precision in the assembly of the nozzle grid, the "traversirovaniye" along the circumference was performed in a section comprising six stages with intervals of about of a stage, i.e., in 48 points on each radius. Only at high values of z (60 - 100 mm) it was possible to eliminate the oscillations of the flow along the circumference and to decrease considerably the number of measuring points. The author concludes that the obtained quantity relations may be applied only to a stage with given geometrical characteristics. The results of experiments confirmed the possibility of considerable deviations in the distribution of pressure, angles and component speeds along the radius (without consideration of meridian curvatures, not even in a stage with cylindrical boundaries). There are 6 figures and 3 references: 2 Soviet and 1 German. ASSOCIATION: Khar kovskiy politekhnicheskiy institut imeni V.I. Lenina (Khar!-

PRESENTED:

kov Polytechnical Institute imeni V.I. Lenin) by the Department of Turbine Construction

Card 2/2

89424 3/143/60/000/006/004/008 A169/A026

26.2120 AUTHORS: Levina, M.Ye., Candidate of Technical Sciences, Docent; Romanenko,

4 4444 8 -----

P.A., Engineer

The Effect of the Clearance Between Rims on the Loss Distribution

TITIE: The Elisabeth of the Stage in a Turbine Stage in a Turbine Stage PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Energetika, 1960, No. 6, pp. 78 - 85

The application of wide clearances between rims is made very tempting by the adjustment of the pitch irregularity in the flow with increasing distances from the nozzle cascade, especially for gas turbines, where the absence of shroud rings deteriorates the blade vibration characteristics. However, increasing the clearance between the rims can lead to additional losses. Contradictory experimental data published by various authors (Refs. 1, 2 and 3) show creasing the clearance between the rims studied. For example, experiments dictory experimental data published by various authors (Refs. 1, 2 and 3) show at this effect has not yet been sufficiently studied. For example, experiments at MAN (MAI) show a 7 - 15% efficiency increase upon enlarging the clearance between rims by 7 mm. This result is hardly justified, since it would mean a 25 to at MAN (MAI) show a 7 - 15% efficiency increase upon enlarging the clearance between rims by 7 mm. This result is hardly justified, since it would mean a 25 to at MAN (MAI) show a 7 - 15% efficiency places. The authors present the results tween rims by 7 mm. This result is hardly justified, since it would mean a 25 to at MAN (MAI) show a 7 - 15% efficiency places. The authors present the results tween rims by 7 mm. This result is hardly justified, since it would mean a 25 to at MAN (MAI) show a 7 - 15% efficiency increase upon enlarging the clearance between the rims of the control of the flow control of the f

Card 1/3

8/143/60/000/006/004/008 A169/A026

The Effect of the Clearance Between Rims on the Loss Distribution in a Turbine

area, which is obtained by using a stage without a shroud ring. The average radial clearance in the periphery was 0.75 mm at a blade height of 81.5 mm. The Stage same turbine stage, and partially the same experiments, were used like in the experiments described by the authors in a previous paper (Ref. 5). The results of the investigation are compiled in 9 graphs. The authors arrived at the following conclusions (valid only for the given turbine stage): 1) With increasing distances from the nozzle cascade, the flow energy decreases essentially, mainly because of losses at the flow borders. 2) From the view point of losses at the working blades, an optimum value is found for the clearance between the rims at which the pitch irregularity of the flow has already been sufficiently adjusted, while the radial irregularity is not yet sufficiently developed due to a deviating of the boundary layers. 3) Losses in the outlet velocity caused by a displacement of the flow towards the periphery and the formation of a stagnation zone at the blade root are distributed very irregularly over the radius and constitute a very essential magnitude. 4) The presence of a negative degree of reactivity at the blade root causes a considerable efficiency reduction of the stage, mainly because of a deterioration of the working blade efficiency and al-

Card 2/3



LEVINA, L. Yo.; ROTALLI 10, A.A.

Curvature of the moridian trajectory in a stage with cylinder shapes blading. Trudy IhFI 29 no.2:39-53 *60. (INPA 14:10)

(Steen turbines -- Design and construction)

10.6300

8/123/61/000/003/020/023 A004/A104

AUTHORS:

Levina, M. Ye., and Romanenko, P. A.

TITLE:

Theoretical investigations of break-off phenomena in ring-shaped

PERIODICAL:

Referativnyy zhurnal, Mashinostroyeniye, no. 3, 1961, 26, abstract ("Tr. Khar'kovsk. politekhn. in-ta", 1960, v. 29, no. 2, 55-72)

TEXT: The authors theoretically investigate break-off phenomena of the flow at various characteristics of ring-shaped grids and the effect of distortion of the meridional trajectory of the flow, pressure increase at the break-off boundary compressibility of the flow and type of vortex on the distribution of the flow parameters over the radius behind the grid. They study the flow pattern in ringshaped grids and behind them, as well as the layout of the process of break-off formation from the bushing. Equations and graphical dependences are presented of the relative pressure drop depending on the bushing ratio for various rules of profiling the blades of ring-shaped grids. The calculation results proved in particular that a distortion of the meridional flow trajectory in the outlet cross

Card 1/2

Theoretical investigations of break-off ...

3/123/61/000/003/020/023 A004/A104

section of the ring-shaped grid considerably varies depending on the bushing ratio and reentrant angle of the flow. This leads to a violation of the law of radial speed component change assumed during profiling. With an increase of the M number of the flow the stream in ring-shaped grids in the subsonic range becomes more stable while the admissible limit of minimum bushing ratios is reduced.

V. Kostylev

[Abstractor's note: Complete translation]

Card 2/2

2223.5

8/124/61/000/003/005/028 A005/A105

26,2141

AUTHORS:

Levina, M. Ye., and Romanenko, P. A.

TITLE:

The experimental investigation of the separation phenomena behind an

PERIODICAL: Referativnyy zhurnal, Mekhanika, no. 3, 1961, 24-25, abstract 3B148. (Tr. Kharkovsk. politekhn. in-ta, 1960, v. 29, no. 2, 73-87)

TEXT: For taking into account the effect of viscosity on the separated flows behind an annular cascade at small angles of flow, two annular cascades were investigated in the wind tunnel as well as a pilot air turbine with cascade no. 3 was tested. The parameters characterizing the cascades are presented in the

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Į	1 2 3 Card 1/2	248 325 418,5	3.31 4.33 5.13	0.535 0.625 0.674	108 42.4 41.0	0.6 0.62 0.76	0.69 1.75 1.988	14 12 12	12 38 42	X

The experimental investigation ...

\$/124/61/000/003/005/028

The measuring method is expounded. The pictures of the meridional lines of flow behind the annular cascades as well as the graphs of curvature of the meridional lines of flow, of the radial differences in pressure, and of the radii of the separation zone are presented. The results obtained are compared with the calculation data. The experimental data on the velocity profiles and the angles & behind the annular cascades are presented. It is pointed out that the flow behind the annular cascade may relatively be divided into three zones: 1) the zone immediately behind the cascade, where the separation did not yet proceed, and the radial velocity is small, but the curvature of the meridional trajectory has a maximum; 2) the transition zone; 3) the zone of cylindric flow after the finishing of flow shift into the periphery and formation of the dead zone. The experimental data are compared with the calculation results according to the Bammert-Kläukens method as well as the refined method of the authors (see abstract 3B147). For explaining the effect of the flow conditions behind the annular cascade on the flow in the cascade, an investigation was carried out by means of a restrictor disk with radial slits of constant width. The separation zone was sharply reduced. Results from the investigation of cascade no. 3 together with the impeller with cylindric blades of the T-1 profile are presented, and the data [Abstractor's note: Complete translation] A. Bunimovich

Card 2/2

ACCESSION NR: AP4042865

5/0114/64/000/007/0041/0045

AUTHOR: Levina, M. Ye. (Candidate of technical sciences, Docent); Romanenko, P. A. (Candidate of technical sciences); Grechanichenko, Yu. V. (Engineer)

TITLE: Calculation of the distribution of stream parameters in a turbine stage with an allowance for radial acceleration

SOURCE: Energomashinostroyeniye, no. 7, 1964, 41-45

TOPIC TAGS: turbine, turbine blade, turbine stage, turbine engine

ABSTRACT: The article is a further development of P. A. Romanenko's earlier work (Izv. AN SSSR. Energetika i avtomatika, 1959, no. 6). A method is set forth for calculating the distribution of cylindrical-stream parameters in a turbine stage with an allowance for the region occupied by the rotor blades and the ring space beyond these blades. Three variants of the stages of an experimental

Cord 1/2

ACCESSION NR: AP4042865

air turbine were calculated by the above method with a view toward investigating the effect of the movable-blade twist on the flow beyond the nozzle row. The blade length, 81.5 mm, and outside diameter, 500 mm, were kept constant; the twist pattern and nozzle-diaphragm width were varied. The latter parameter was found to have the strongest influence on the stream distribution. Orig. art. has:

ASSOCIATION: Khar'kovskiy politekhnicheskiy institut im. V. I. Lenina (Khar'kov Polytechnic Institute)

SUBMITTED: 00

ENCL: 00

SUB CODE: PR

NO REF SOV: 006

OTHER: 001

Cord 2/2

L 33026-66 EWP(f)/V-2 ACC NRI AP6014397 (N) SOURCE CODE: UR/0096/66/000/001/0043/0048 AUTHOR: Levins, M. Ye, (Docent); Grebnev, V. K. (Engineer) ORG: Khar'kov Polytechnic Institute im. V. I. Lenin (Khar'kovskiy politekhnicheskiyy institut) B TITLE: Effect of the geometric characteristics of a turbine stage on the radial reactivity gradient Teploenergetika, no. 1, 1966, 43-48 TOPIC TAGS: turbine stage, turbine design, steam turbine ABSTRACT: In the design of turbine stages, the change in pressure over the radius in the inter-rim space is generally evaluated by means of the simplified equation for radial equilibrium: (1) This expression is also used in the full form: (2) Card 1/2 UDC: 621.165:533.6.001.5

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· L 33026-66

ACC NR: AP6014397

The srticle presents the results of an experimental investigation of the break down of the cylindrical character of the flow in turbine stages, with different degrees of twisting, maintaining strictly cylindrical characteristics of the flow through section. Results, given in a series of curves, show that in general the radial gradient of the reactivity in a stage with cylindrical boundaries of the flow through section does not obey the simplified equilibrium condition. In particular, in stages with vanes of a constant profile, this lack of agreement is very noticeable. A considerable break down of cylindrical flow can take place even with small inter-rim distances. Orig. art. has: 5 formulas, 6 figures and

SUB CODE: 10/ SUBM DATE: none/ ORIG REF: 003/ OTH REF: 001

Card 2/2-20

KUPRYAKHINA, K.Z.; ZIMTSEV, P.P.; IVASHCHENKO, A.T.; KOVALENKO, M.F.; Prinimali uchastiye: MOROZOVA, N.A.; ANTIPOVA, G.G.; LEVINA, N.A.

Use of ion-exchange resins for the decontamination of waste waters.

Koks i khim. no.7:46-47 165. (MIRA 18:8)

1. Ukrainskiy nauchno-issledovatel skiy uglekhimicheskiy institut (for Kupryakhina). 2. Rutchenkovskiy koksokhimicheskiy zavod (for Zimtsev, Ivashchenko, Kovalenko).

LEVINA, Wina Dmitrivevna, montarhnitsa; GUROV, S., redaktor; YAKOVLEVA, Ye.,

teknntoneskiy redaktor

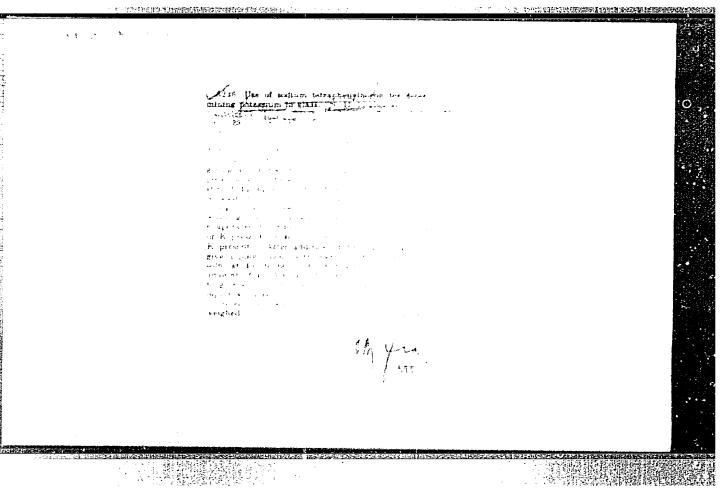
[Production potentials of the job] Rezervy - na rabochem meste.

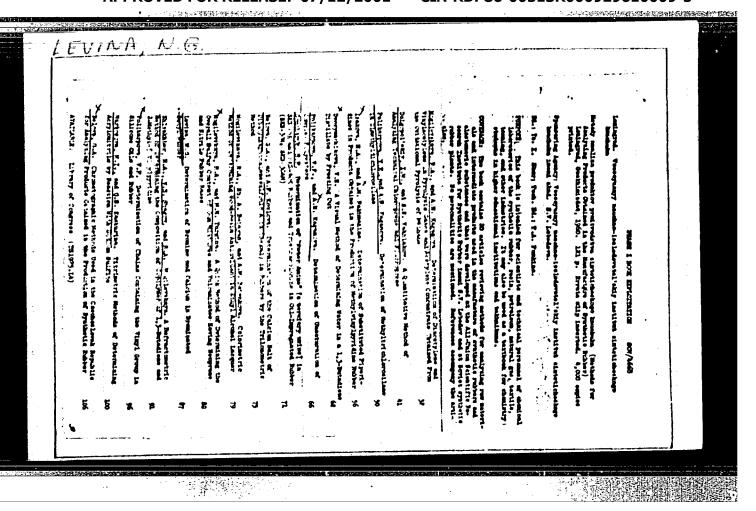
[Moskva] Moskovskii rabochii, 1956. 51 p. (MLEA 10-3)

1. Moskovskiy elektrolampovyy zavod (for Levina)

(Electron tuber)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610009-5"





ZVENIGORODSKIY, G.Z., inzh.; LEVINA, H.I., inzh.

Manufacturing briquets from coal fines of "Zhurinka-3" and "Polymervskaia-2" mines in the Kusnetsk Basin. Obog.i brik.ugl. no.ll:

11-15 '50. (MIRA 13:6)

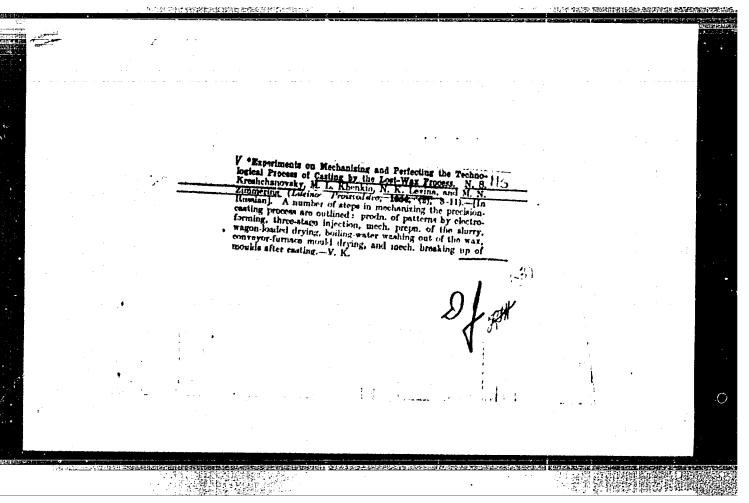
(Kusnetsk Basin--Coal) (Briquets (Fuel))

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ZVENIGORODSKIY, G. Z., insh.; LEVINA, N. I., insh.

Briquetting of the pulp from Karaganda Central Coal Preparation Plant. Obog. i brik. ugl. no.24:26-31 '62. (MIRA 15:10)

(Karaganda Basin—Coal preparation plants)
(Briquets(Fuel))



ACCESSION NR: AP4022458

5/0128/64/000/003/0027/0031

AUTHORS: Khonkin, M. L. (Candidate of technical sciences); Levina, N. K. (Engineer); Spektorova, S. I. (Engineer); Abramov, V. I. (Engineer); Grishchenko, V. G. (Engineer)

TITLE: Study of some foundry alloys used in the production of high precision details

SOURCE: Liteynoye proizvodstvo, no. 3, 1964, 27-31

TOPIC TAOS: foundry alloy, high-precision machine detail, machine detail casting, AL2 alloy, AL9 alloy, Vili5-1 alloy, KL5 magnesium alloy, steel, 35L steel, IKV vertical optimeter, Milo magnesium alloy, dimensional stability

ABSTRACT: Measuring high-precision machine details showed that their dimensions changed with the progress of relaxation processes and of structural transformations in metals. In general, such machine details operate in the temperature range of -30C to 120C and under stresses not exceeding several kg/mx2. The conditions necessary for the required dimensional stability of alloys AL2, AL9, VI15-1, ML5 and steel 35L were determined. All the samples were treated thermally, and their

OTHER:

ACCESSION NR: APLIO22158

deformation, stress relaxation, and the residual stress level were studied. The deformation was measured by a vertical IKV optimeter. It was established that the alloy VII5-1 had the greatest relaxation stability among the aluminum alloys and that the MILO was the best in this respect among the magnesium alloys. A repeated that the MILO was the best in this respect among the magnesium alloys. A repeated that the MILO was the best in the course of plastic deformation) increased the internal hardening (produced in the course of plastic deformation) increased the relaxation stability of alloys during the cyclic thermal treatment. It is concluded that the process to be used in securing dimensional stability must produce a stable structure and a proper state of relaxation not only in the separate details of an instrument but also in the assemblies of such details. Since additional stresses may be produced in the course of assembling, whole assemblies must undergo an additional repeated thermal treatment. This treatment should involve at least three heating-chilling cycles with a lower temperature range of -40 to -700 and an upper of 80-1500. Orig. art. has: 4 tables and 13 figures.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 10Apr64

ENCL: 00

NO REF SOV: COS

OTHER: OOO

SUB APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610009-5

KHENKIN, M.L.; LEVINA, N.K.; SPEKTOROVA, S.I.; ABRAMOV, V.I.; GRICHCHENKO, V.G.; Prinimali uchastiyo: IVANOVA-EMIN, M.P.; GERASIMOVA, I.I.; TARDOVA, L.G.

Investigating some foundry alloys for high precision parts. Lit. proizv. no.3:27-31 Mr '64. (MIRA 18:9)

ACC NR. AP7002740 SOURCE CODE: AUTHOR: Khenkin, M. L.; Lokshin, I. Kh.; Levina, N. K.; Sidokhin, Ye. UR/0126/66/022/006/0896/0903 Simeonov, S.L.; Minina, L.V.; Pavlikova, Ye.V. Effect of cyclic heat treatment on the properties and structure TITLE: of alloys containing phases with different expansion coefficients SOURCE: Fizika metallov i metallovedeniye v. 22, no. 6, 1966, 896-903 WERNAL STRESS, COOLING, ALUMINUM BASE ALLOY, ASILICON CONTAINING alloy, magnesium containing alloy, alloy TOPIC TAGE: heat treatment, cyclic heat treatment, method mechanical property, stress relaxation, cyclic heat treatment effect/AL2 alloy, AL9T2 An investigation has been made of the effect of cyclic heat treatment (CHT) on the internal stresses and relaxation characteristics of alloys containing phases with different expansion coefficients. Each cycle in CHT consisted of cooling to subzero temperatures (-40 to -190), holding for 10-120 min, followed by heating to relatively low temperatures (up to 150C) and holding at these temperatures for 15-240 min. It was found that CHT reduced internal stresses and increased the relaxation strength in all investigated alloys. The greatest decrease in internal stresses was observed in AL2 (12.1%81) and AL9T2 (7%81, 0.3% Mg) aluminum alloys. The CHT had no effect on the tensile and yield Cara 1/2 UDC: 669.017: [548.735+620.187]

Card 2/2

KOSTYUK, N.G.; L'VOV, S.V.; FAL'KOVSKIY, V.B.; STARKOV, A.V.; LEVINA, N.H.

Preparation of anhydrides of higher carboxylic acids by the reaction of transanhydridization. Zhur.prikl.khim. 35 no.3: 698-699 Mr 162. (MIRA 15:4)

1. Moskovskij institut tonkov khimicheskov tekhnologii imeni M.V.Lomonosova. (Anhydrides)

SVIRIDA, V.G.; BURACHEVSKII, I.I.; LEVINA, H.H. Production of rum from miplasses of unrefined cane sugar. Spirt.prom., (MIRA 16:5) 1. Belorusskiy sovet narodnogo khozyaystva (for Svirida). 2. Belorusskiy nauchno-issledovatel'skiy institut promyshlennosti prodovol'stvennykh tovarov (for Burachevskiy, Levina). (Rum)

BLOKH, Z.Sh.; LEVINA, N.S.; KHMELEVSKIY, I.L., otv. red.; REKIS, L.Ye., red.

[Handbook for carrying-out tests in theoretical mechanics for second year students of technical departments] Posobie k vypolneniiu kontrol nykh rabot po teoreticheskoi mekhanike dlia studentov II kursa tekhnicheskikh fakul tetov. Moskva, Redaktsionno-izdatel skii otdel VZEIS, 1963. 139 p. (MIRA 17:3)

TURGEL', Ye.O.; LEVINA, N.S.; NOVIKOVA, V.I.

Composition of extraction and tall-oil rosin and of the products of their fractional distillation. Gidroliz. i lesokhim.prom. 18 no.1:8-12 '65. (MIRA 18:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut neftekhimicheskikh protsessov.

Antonov, M.V. and Lovina, C.A. "Storage of citrus fruits in the frozen state," Sbornik nauch. ratot (Hauch. Issled. in-t togovli i claheheastv. pitaniya), Mescew, 1949, p. 151-59, Bibliog: 5 items

SC: U-5241, 17 December 1953, (Lotopis 'zhurnal 'nykh Statey No. 26, 1949).

APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000929610009-5

Pu-4 IJP(c) JD/JG ENT(m)/EPF(n)-2/ENP(t)/ENP(b) L 17532-55 S/0078/64/009/009/2142/2147 ACCESSION NR: AP4044809

AUTHOR: Banty*sh, A. N.; Knyazev, D. A.; Leyina, Q. V.

TITLE: Bromohydroxyquinolinate and benzoylphenylhydroxylaminate of hexavalent

molybdenum 1

SOURCE: Zkurnal neorganicheskoy khimii, v. 9, no. 9, 1964, 2142-2147

TOPIC TAGS: molybdenyl bromohydroxyquinolinate, molybdenyl benzoylphenylhydroxylaminate, hexavalent molybdenum, extraction

ABSTRACT: The extraction of the chelates of Mo+6 formed with 5,7-dibromohydrox quinoline and benzoylphenylhydroxylamine (BPHA) was determined by studying the extraction distribution of molybdenum between water and chloroform. It was concluded that the Mo+6 was extracted exclusively in the form of complexes of the general formula MoO2R2: determinations of the R/Mo ratio (R = chelate forming anion) were made by various methods: saturation method, determination of the tangent of the angle of inclination of the lgC-lg(HR) curve, and the tangent of the angle of inclination of the asymptote of the lgD-lg(R-) curve, where D is the

Card 1/3

CIA-RDP86-00513R000929610009-5" APPROVED FOR RELEASE: 07/12/2001

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coefficient of distribution of molybdenum, (HR)₀ is the free extractant in the organic phase and (R⁻) is the extractant anion. The instability constants were determined by different methods; pK₂ for molybdenyl bromohydroxyquinolinate was about 28, for molybdenyl benzoylphenylhydroxylaminate, about 26. The solubility of these complexes in chloroform is shown in fig. 1; the solubility of the Mo-BPHA complex at pH 4 was 0. 202 mol/1. Orig. art. has: 2 figures, 4 tables and 4 equations.

ASSOCIATION: None

SUBMITTED: 01Jun63

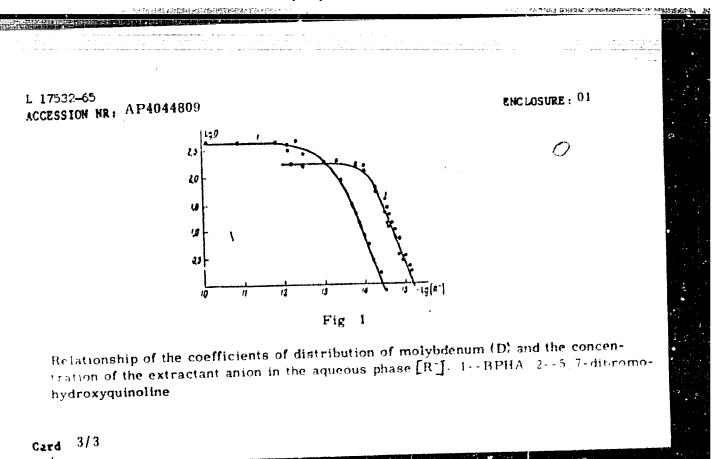
ENCL: 01

SUB CODE: GC

NO REF SOV: 012

OTHER: 014

Card 2/3



USER/Medicine - Jaw, Surgery Jul/Aug/Sep 18

Medicine - Amesthesia, Intravenous

"Experience in Intravenous Amesthesia With Pentothal in Maxillofacial Surgery," O. Ya. Levina, Cand Med Boi, Leningrad State Pediatrics Med Inst, 3 pp

"Stomatologiya" No 3

Moninhalation emesthetic is advantageous in maxillofacial surgery. Intravenous emesthesia with pentothal is ideal for such cases. Disousses administration and dosage.

34/49717

LEVINA, O.Ym.

Facial burns in children. Vopr. pediat. 20 no.4:40-41 July-Aug 1952.

(CIML 23:2)

1. Of the Department of Children's Surgery. Leningrad State Pediatric Medical Institute (Head of Department -- Prof. A. V. Shatskiy).

LEVINA, O.Ya.

Use of penicillin for treating osteomyelitis of the jaw in children. Stomatologiia no.4:63 Jl-Ag '55. (MLRA 8:10)

1. Is kafedry khirurgii detskogo vosrasta (sav.prof. A.V.Shatskiy) Leningradskogo gosudarstvennogo pediatricheskogo meditsinskogo instituta.

(PENICILLIN) (OSTEOMYELITIS) (JAVS--DISEASES)

AVIDON, D.B., kend.med.nauk; BAIROV, G.A., kend.med.nauk; BUTIKOVA, N.I., dotsent, kend.med.nauk; BOYKOV, G.A., kend.med.nauk; VERESHCHAGINA, L.N., kend.med.nauk; GONCHAROVA, M.N., prof., doktor med.nauk; ZHOLOBOV, L.K., vrach; ZEMSKAYA, A.G., kend.med.nauk; KAYSAR'YANTS, G.A., dotsent, kend.med.nauk; KOLESOV, A.P., doktor med.nauk; KONDRAT'YEV, A.P., kend.med.nauk; KORCHANOV, G.I., kend.med.nauk; KUTUSHEV, F.Kh., kend.med.nauk; LEVINA, O.Ya., kend.med.nauk; LYANDRES, Z.A., prof., doktor med.nauk; MOROZOVA, T.I., kend.med.nauk; MIRZOYEVA, I.I., kend.med.nauk; PANUSHKIN, V.S., kend.med.nauk; RASTORGUYEV, A.V., vrach; RUDAKOVA, T.A., kend.med.nauk; SAVITSKAYA, Ye.V., kend.med.nauk; SVISTUNOV, N.I., vrach; CHISTOVICH, G.V., kend.med.nauk; YAKOVLEVA, T.S., vrach; MARGORIN, Yevgeniy Mikhaylovich, prof., red.; DOLETSKIY, S.Ya., red.; VERESHCHAGINA, L.N., red.; RULKVA, M.S., tekhn.red.

[Operative surgery on children] Operativnaia khirurgiia detskogo vozrasta. Leningrad, Gos.izd-vo med.lit-ry Medgiz, Leningr.otd-nie, 1960. 475 p. (MIRA 13:12)

(CHILDREN--SURGERY)

LEVINA, O.Ya., kand. med. nauk

Sublingual cysts in children. Padiatriia 42 no.3:65-67 Mr 163

1. Iz kafedry khirurgii detskogo vozrasta (zav. - doktor med. nauk G.A. Bairov) Leningradskogo pediatricheskogo meditsinskogo instituta.

。 工程的特殊,不是那种的的基本的自身的人工发生的

VEYDENBAKH, V.A.; LEVINA, P.I.

Effect of the concentration of developing agents on high speed development. Part 2: Investigating the hydroquinone developer. Zhur.nauch.i prikl.fot.i kin. 5 no.4:241-246 J1-Ag '60.

(MIRA 13:8)

1. Gosudarstvennyy opticheskiy institut im. S.I. Vavilova. (Photography--Developing and developers)

LEVINA, P.I.; VEYDERAKH, V.A.

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(MTRA 13:12)

1. Gosudarstvennyy opticheskiy institut imeni S.I. Vavilova.
(Photography—Developing and developers)

LEVINA, P. I.

Cand Chem Sci - (diss) "Investigation of the effect of concentration of developing substances on the process of photographic development." /Leningrad/, 1961. 18 pp; (Ministry of Culture RSFSR, Leningrad Inst of Motion Picture Engineers); 200 copies; price not given; (KL, 5-61 sup, 176)

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1. Gosudarstvennyy opticheskly institut imeni Vavilova, Leningrad.